



# RESEARCH, DEVELOPMENT and TECHNOLOGY TRANSFER QUARTERLY PROGRESS REPORT (QPR)

Wisconsin Department of Transportation (WisDOT)  
DT1241 5/2014

## INSTRUCTIONS:

Research principal investigators and/or project managers should complete a quarterly progress report (QPR) for each calendar quarter during which the projects are active.

<b>WisDOT Research Program Category</b> <input type="checkbox"/> Policy Research <input checked="" type="checkbox"/> Wisconsin Highway Research Program <input type="checkbox"/> Other: _____		<b>Report Period</b> (enter year and check which quarter) Year: <u>2014</u> <input type="checkbox"/> Quarter 1 (Jan 1 – Mar 31) <input checked="" type="checkbox"/> Quarter 3 (Jul 1 – Sep 30) <input type="checkbox"/> Quarter 2 (Apr 1 – Jun 30) <input type="checkbox"/> Quarter 4 (Oct 1 – Dec 31)	
<b>Project Title</b> Performance of Pile Supported Sign Structures		<b>WisDOT Project ID</b> 0092-14-02	
<b>Principal Investigator Name</b> Andrew Boeckmann	<b>Project Oversight Committee Chair Name</b> Jeff Horsfall	<b>Project Start Date (m/d/yyyy)</b> 8/8/2013	
<b>(Area Code) Telephone Number</b> 573-882-6084	<b>(Area Code) Telephone Number</b> 608-243-5993	<b>Original End Date (m/d/yyyy)</b> 2/7/2015	
<b>Email Address</b> boeckmanna@missouri.edu	<b>Email Address</b> Jeffrey.Horsfall@dot.wi.gov	<b>Current End Date (m/d/yyyy)</b> 2/7/2015	

## Project Schedule Status (check one)

☒ On Schedule ☐ On Revised Schedule ☐ Ahead of Schedule ☐ Behind Schedule

## Project Budget Status

Total Project Budget	Expenditures Current Quarter	Total Expenditures	% Funds Expended	% Work Completed
\$99,999.00	\$55,251.00	\$99,999.00	100%	85%

## Project Description

Perform a field load test and numerical modeling of two pile groups to investigate load transfer for sign foundations.

## Progress This Quarter (includes meetings, work plan status, contract status, significant progress, etc.)

The research team worked on Task 3, Data Analysis and Interpretation, in this quarter. The data collected during the field research of the past quarter has all been reduced and analyzed to produce tables and plots that summarize the loads and displacements for the structures throughout the load test. The team is in the process of interpreting the data using Ensoft GROUP. Additional efforts to potentially interpret the data using a finite element code developed internally are also underway. Finally, the team is working on a draft of the Final Report (Task 4), which should be completed by the end of October.

## Anticipated Work Next Quarter

The research team will finish interpretation of test data and a draft of the Final Report in the next quarter.

## Circumstances Affecting Project or Budget

Currently, work on the project is underway and is being performed consistent with the research plan and project budget.

## Attach / Insert Gantt Chart and Other Project Documentation

The Gantt chart from the research plan is included below. Currently the research team is working on Task 3 and Task 4. The project is on schedule, consistent with the Gantt chart.

Task	Project Month																	
	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1. Literature Review																		
2. Field Research																		
3. Data Analysis																		
4. Final Report																		
Draft Final Report Submitted October 31, 2014																		
WisDOT Review																		
Report Revisions & Final Submittal																		
Final Final Report Submitted January 31, 2015																		

(\*enter text)

For WisDOT Use Only	
Staff Receiving QPR J. Walejko	Date Received (m/d/yyyy) 10/6/2014
Staff Approving QPR Jeff Horsfall	Date Approved (m/d/yyyy) 10/24/2014